Listing of Claims:

1. (Previously Presented) A pharmaceutical composition comprising core-shell particles, said core-shell particles comprising a core component and a shell component, the core component comprising a potassium-binding cation exchange polymer, the shell component comprising a polymer having a permeability for potassium ion that is higher than the permeability for a competing cation, said core-shell particles having a capacity for binding potassium ion in a gastrointestinal tract of an animal subject suffering from renal insufficiency or renal failure, and retaining a significant amount of said bound potassium ion during a period of residence of the core-shell particles in the gastrointestinal tract of the animal subject suffering from renal insufficiency or renal failure.

2-9. (canceled)

10. (Previously Presented) The pharmaceutical composition of claim 1 wherein said shell component polymer is capable of modulating movement of said competing cation into or out of said core-shell particle.

11-15. (canceled)

- 16. (Previously Presented) The pharmaceutical composition of claim 1 wherein said permeability of said shell component polymer to potassium ion is independent of said permeability of said shell component polymer to said competing cation.
- 17. (Previously Presented) The pharmaceutical composition of claim 1wherein said core component is physically or chemically attached to said shell component.

18-19. (canceled)

- 20. (Previously Presented) The pharmaceutical composition of claim 1wherein said shell component polymer exhibits a greater interaction with said competing cation compared to said potassium ion.
- 21. (Previously Presented) The pharmaceutical composition of claim 1wherein said shell component polymer repels said competing cation by ionic interaction.
- 22. (Previously Presented) The invention of claim 1 or 45 wherein said shell component is about 1nm to about 50 μ m thick.
- 23. (Previously Presented) The invention of claim 1 or 45 wherein said core-shell particle is about 200 nm to about 2 mm in size.
- 24. (Previously Presented) The invention of claim 1 or 45 wherein said shell component is about 0.005 microns to about 20 microns thick.

25-30. (canceled)

- 31. (Previously Presented) The pharmaceutical composition of claim 1wherein said shell component is deposited with a coating process.
- 32. (Previously Presented) The pharmaceutical composition of claim 1 further comprising an enteric coating.

33-44. (canceled)

45. (Previously Presented) A method of removing potassium ion from a gastrointestinal tract of an animal subject suffering from renal insufficiency or renal failure, the method comprising:

administering to the animal subject suffering from renal insufficiency or renal failure a composition comprising core-shell particles, the core-shell particles comprising a core component and a shell component, the core component comprising a potassium-binding cation exchange polymer, the shell component comprising a polymer having a permeability for potassium ion that is higher than a permeability for a competing cation,

binding potassium ion with the core-shell particles in the gastrointestinal tract of the animal subject, and

retaining a significant amount of the bound potassium ion with the core-shell particles for a period of residence of the core-shell particles in the gastro-intestinal tract of the animal subject suffering from renal insufficiency or renal failure.

46. (Previously Presented) The invention of claim 1 or 45 wherein the core component comprises a crosslinked cation-exchange polymer.

47.	(Previously Presented) The invention of claim 1 or 45 wherein the core component
comprises a ca	tion-exchange polymer comprising acidic functional groups.

- 48. (Previously Presented) The invention of claim 1 or 45 wherein the core component comprises a cation-exchange polymer comprising functional groups selected from the group consisting of carboxylate, phosphonate, sulfate, sulfanate, sulfamate and combinations thereof.
- 49. (Previously Presented) The invention of claim 1 or 45 wherein the shell component comprises a crosslinked polymer.
- 50. (Previously Presented) The invention of claim 1 or 45 wherein the shell component comprises a crosslinked synthetic polymer.
- 51. (Previously Presented) The invention of claim 1 or 45 wherein the shell component comprises an ethylenic polymer.
- 52. (Previously Presented) The invention of claim 1 or 45 wherein the shell component comprises a vinylic polymer.
- 53. (Previously Presented) The invention of claim 1 or 45 wherein the shell component comprises a crosslinked vinylic polymer.

- 54. (Previously Presented) The invention of claim 1 or 45 wherein the shell component is essentially not disintegrated during the period of residence of the core-shell particles in the gastro-intestinal tract.
- 55. (Previously Presented) The invention of claim 1 or 45 wherein the core-shell particles retain at least about 50% of the bound potassium ion with the core-shell particles for the period of residence of the core-shell particles in the gastro-intestinal tract.
- 56. (Previously Presented) The invention of claim 1 or 45 wherein the core-shell particles retain at least about 75% of the bound potassium ion with the core-shell particles for the period of residence of the core-shell particles in the gastro-intestinal tract.
- 57. (Previously Presented) The invention of claim 1 or 45 wherein the core-shell particles selectively bind potassium ion over the competing cation during the period of residence of the core-shell particles in the gastro-intestinal tract.
- 58. (Previously Presented) The invention of claim 1 or 45 wherein the animal subject is a human suffering from end stage renal disease (ESRD).
- 59. (Previously Presented) The invention of claim 1 or 45 wherein the animal subject is a human dialysis patient.
- 60. (Previously Presented) The invention of claim 1 or 45 wherein the animal subject is a human suffering from hyperkalemia.